CLAIMS:

What is claimed is:

1   1.   In a data processing system having a central processing
2   unit, memory, at least one user output device, and a user
3   input device, a method for retrieving and presenting stored
4   documents on a plurality of output devices each requiring
5   different presentation parameters, comprising the steps of:
6   parsing a document into one or more objects;
7   parsing each object into one or more units;
8   storing said units according to processing requirements
9   of each said unit;
10   classifying connected presentation devices;
11   receiving a request from a said presentation device;
12   assembling said document from said stored units; and
13   sending said assembled document to said presentation
14 device.

1   2.   The method of claim 1, wherein parsing each object into
2   one or more units, further comprises:
3   determining type of each said unit.

1   3.   The method of claim 1, wherein storing said units
2   according to processing requirements of each said unit,
3   further comprise:
4   storing said units, requiring less processing to
5   convert to device-dependent format, in device-independent
6   format; and
7   storing said units, requiring more processing to
8   convert to device-dependent format, in device-dependent
9   format.

1   4.   The method of claim 1, wherein classifying said

2   connected presentation devices, further comprise:
3   determining acceptable document formats for said
4   connected presentation devices; and
5   classifying said devices according to device-dependent
6   characteristics

1   5.   The method of claim 1, wherein receiving a request from
2   said connected presentation device for said target document,
3   further comprises:
4   determining whether said peripheral device is known or
5   unknown.

1   6.   In a data processing system having a central processing
2   unit, memory, at least one user output device, and a user
3   input device, a system for retrieving and presenting stored
4   documents on a plurality of output devices each requiring
5   different presentation parameters, comprising:
6   logic means for parsing a document into one or more
7   objects;
8   means for parsing each object into one or more
9   units;
10   storage means for storing said units according to
11   processing requirements of each said unit;
12   discrimination means for classifying connected
13   presentation devices;
14   receiving means for receiving a request from said
15   presentation devices;
16   logic means for assembling said document from said
17   stored units; and
18   transmitting means for sending said assembled document
19   to said presentation device.

1   7.   The system of claim 6, wherein logic means for parsing
2   each object into one or more units, further comprises:
3   comparison means for determining type of each said
4   unit.

1   8.   The system of claim 6, wherein storage means for
2   storing said units according to processing requirements of
3   each said unit, further comprise:
4   means for storing said units, requiring less processing
5   to convert to device-dependent format, in device-independent
6   format; and
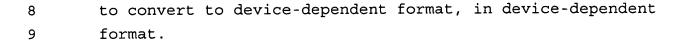7   means for storing said units, requiring more processing

8   to convert to device-dependent format, in device-dependent

9   format.

1   9.   The system of claim 6, wherein discrimination means for

2   classifying said connected presentation devices, further

3   comprise:

4   comparison means for determining acceptable document

5   formats for said connected presentation devices; and

6   classification means for classifying said devices

7   according to device-dependent characteristics

1   10.   The system of claim 6, wherein receiving means for

2   receiving a request from said connected presentation device

3   for said target document, further comprises:

4   means for determining whether said peripheral device is

5   known or unknown.

1   11.   In a data processing system having a central processing
2   unit, memory, at least one user output device, and a user
3   input device, a computer program product within a computer
4   readable medium having instructions for retrieving and
5   presenting stored documents on a plurality of output devices
6   each requiring different presentation parameters, comprising
7   the steps of:
8   instructions within said computer program product for
9   parsing a document into one or more objects; and
10   instructions within said computer program product
11   for parsing each object into one or more units;
12   instructions within said computer program product for
13   storing said units according to processing requirements of
14   each said unit;
15   instructions within said computer program product for
16   classifying connected presentation devices;
17   instructions within said computer program product for
18   receiving a request from a said presentation device;
19   instructions within said computer program product for
20   assembling said document from said stored units; and
21   instructions within said computer program product for
22   sending said assembled document to said presentation device.

1   12.   The computer program product of claim 11, wherein
2   instructions for parsing each object into one or more units,
3   further comprises:
4   instructions within said computer program product for
5   determining type of each said unit.

1   13.   The computer program product of claim 11, wherein
2   instructions for storing said units according to processing
3   requirements of each said unit, further comprises:
4   instructions within said computer program product for

5 storing said units, requiring less processing to convert to
6 device-dependent format , in device-independent format; and
7   instructions within said computer program product for
8 storing said units, requiring more processing to convert to
9 device-dependent format, in device-dependent format.

1 14. The computer program product of claim 11, wherein
2 instructions for classifying said connected presentation
3 devices, further comprises:
4   instructions within said computer program product for
5 determining acceptable document formats for said connected
6 presentation devices; and
7   instructions within said computer program product for
8 classifying said devices according to device-dependent
9 characteristics.

1 15. The computer program product of claim 11, wherein
2 instructions for receiving a request from said connected
3 presentation device for said target document, further
4 comprises:
5   instructions within said computer program product for
6 determining whether said peripheral device is known or
7 unknown.